

# Comparisons of Job Characteristics

**Focus Occupation:** [Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic \(51-4072\)](#)

**Associated Occupation:** [Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic \(51-4191\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 76

**Focus Occupation:** [Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic \(51-4072\)](#)

**Associated Occupation:** [Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic \(51-4191\)](#)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Production and Processing	6.0	8.6	10.1	> Current knowledge level is likely sufficient
Chemistry	4.8	7.3	2.5	<< Extensive education and/or training may be required
Physics	4.3	6.1	1.6	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 88

**Focus Occupation:** [Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic \(51-4072\)](#)

**Associated Occupation:** [Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic \(51-4191\)](#)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation and Control	5.4	12.0	11.1	0 Current skill level may be sufficient
Operation Monitoring	6.6	11.8	11.4	0 Current skill level may be sufficient
Equipment Maintenance	3.5	8.9	7.4	< A higher skill level may be required
Repairing	3.4	8.1	6.9	< A higher skill level may be required
Troubleshooting	4.5	7.3	7.6	0 Current skill level may be sufficient
Equipment Selection	3.3	6.7	5.0	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 90			
Focus Occupation: Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic (51-4072)					
Associated Occupation: Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Reaction Time	4.8	11.6	8.7	<<	Extensive improvement in abilities may be required
Selective Attention	8.7	11.4	9.2	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	10.8	9.5	<	Some improvement in abilities may be required
Static Strength	5.0	10.8	10.5	0	Current ability level may be sufficient
Rate Control	3.8	9.5	8.4	<	Some improvement in abilities may be required
Stamina	4.0	8.9	7.3	<	Some improvement in abilities may be required
Response Orientation	4.0	8.8	6.2	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	7.1	5.4	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 84
<b>Focus Occupation: Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic (51-4072)</b> <b>Associated Occupation: Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)</b>		
Work Activities	Exclusivity of Activity	
Adjust production equipment/machinery setup	25	
Attach or mark identification onto products or containers	54	
Clean equipment or machinery	20	
Examine products or work to verify conformance to specifications	15	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install equipment or attachments on machinery or related structures	48	
Load or unload material or workpiece into machinery	34	
Load, unload, or stack containers, materials, or products	37	
Maintain or repair industrial or related equipment/machinery	39	
Maintain production or work records	19	

Move or fit heavy objects	8
Operate hoist, winch, or hydraulic boom	34
Operate metal or plastic fabricating equipment/machinery	54
Perform safety inspections in manufacturing or industrial setting	33
Read work order, instructions, formulas, or processing charts	9
Set up production equipment or machinery	51
Signal directions or warnings to coworkers	42
Understand technical operating, service or repair manuals	6
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: n/a

**Focus Occupation: Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic (51-4072)**

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Tools and Technologies	Exclusivity
Tools and technology data is unavailable for one or both occupations.	

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.